

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1 (Currently Amended): An information outputting apparatus comprising:

an outputting device for outputting main information including ~~composed of~~ a plurality of partial information and order information showing an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial information,

wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of main information, the outputting device sequentially outputs the partial information and the order information added to the partial information in accordance with the order of recording or reproducing ~~to an information recording apparatus together with order information, which shows configuration order of said respective partial information in said main information, along a reproduction time series in said main information; and~~

~~a controlling device for controlling the outputting device so as to repeatedly perform said outputting operation with respect to the same said main information and said order information.~~

Claim 2 (Canceled).

Claim 3 (Currently Amended): The information outputting apparatus according to claim 1, wherein said main information is compressed by a variable bit rate ~~having no relation to a time axis.~~

Claims 4 and 5 (Canceled).

Claim 6 (Currently Amended): The information outputting apparatus according to claim 1, wherein said main information includes ~~outputting device also outputs~~ reproduction controlling information for controlling a reproduction manner of said main information recorded in said a recording medium, and the outputting device sequentially outputs the reproduction controlling information, the partial information, and the order information added to the partial information in accordance with the order of recording or reproducing to said information ~~recording apparatus together with said main information and said order information.~~

Claim 7 (Currently Amended): The information outputting apparatus according to claim 1, wherein said main information includes regulating information for regulating the number of times for copying after said main information is recorded in said recording medium, and

the information outputting apparatus further comprises ~~said outputting device further comprises~~ a changing device for uniformly generating changing order information by changing each of said respective order information in association with a content of the included regulating information and generating a changing order information, and, wherein

said outputting device sequentially outputs at least the partial information and said changing order information, which is added to the partial information and is generated by the changing device, in accordance with the changing order information ~~to said information recording apparatus together with said main information.~~

Claim 8 (Currently Amended): The information outputting apparatus according to claim 1, wherein said partial information comprises an ~~[[a]]~~ information sector, and

said order information is any one of sector address information in association with said respective information sectors and relative information which is related to said sector address information.

Claim 9 (Currently Amended): An information recording apparatus for recording main information and order information, which are outputted from an information outputting apparatus, in a recording medium, wherein the information outputting apparatus comprises: an outputting device for outputting said main information including ~~composed of~~ a plurality of partial information and order information showing an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial information, wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of main information, the outputting device sequentially outputs the partial information and the order information added to the partial information in accordance with the order of recording or reproducing to said information ~~recording apparatus together with said order information, which shows configuration order of said respective partial information in said main information, along a reproduction time series in said main information; and a controlling device for controlling the outputting device so as to repeatedly perform said outputting operation with respect to the same said main information and said order information,~~

wherein said information recording apparatus comprises:

an obtaining device for obtaining said outputted partial information and order information ~~in said~~ main information ~~and said outputted order information;~~ and

a recording device for recording said obtained partial information ~~main information~~ in said recording medium by using said obtained order information in the order of obtaining,

wherein said recording device determines whether the whole of one main information is completely recorded or not in accordance with said recorded order information, and

when said recording device determines that the whole of said one main information is not completely recorded in a session, said recording device records remaining partial information and order information in said one main information in another session.

Claim 10 (Original): The information recording apparatus according to claim 9, wherein address information showing a recording position on said recording medium is recorded in advance on said recording medium, and

said recording device records said partial information in association with said order information on a recording position on said recording medium, which is indicated by said address information associated with said obtained order information.

Claim 11 (Currently Amended): The information recording apparatus according to claim 9, wherein said partial information comprises an [[a]] information sector, and

said order information is any one of sector address information in association with said respective information sectors and relative information which is related to said sector address information.

Claim 12 (Currently Amended): An information outputting method comprising:
an outputting process for outputting main information including ~~composed of~~ a plurality of partial information and order information showing an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial information,

wherein the outputting process cyclically outputs the whole of the main information,
and

in each session of outputting the whole of main information, the outputting process sequentially outputs the partial information and the order information added to the partial

~~information in accordance with the order of recording or reproducing to an information recording apparatus together with order information, which shows a configuration order in said main information of said respective partial information, along a reproduction time series in said main information; and~~

~~a controlling process for controlling said outputting process so as to repeatedly perform said outputting process with respect to the same said main information and said order information.~~

Claim 13 (Currently Amended): The information outputting method according to claim 12, further comprising recording ~~wherein said information recording apparatus records~~ said outputted main information in a recording medium by using said outputted order information so that said main information is reproducible ~~reproduced~~ on the basis of said order information.

Claim 14 (Currently Amended): The information outputting method according to claim 12, wherein said main information is compressed by a variable bit rate ~~having no relation to a time axis.~~

Claim 15 (Canceled).

Claim 16 (Currently Amended): The information outputting method according to claim 12, wherein said main information includes regulating information for regulating the number of times for copying after said main information is recorded in said recording medium; and

~~said outputting process~~ method further comprises a changing process for ~~uniformly~~ generating changing order information by changing each of said respective order information in

association with ~~a content of the foregoing included~~ regulating information and ~~generating changing order information; and, wherein~~

said outputting process sequentially outputs at least the partial information and said changing order information, which is added to the partial information and is generated by the changing process, in accordance with the changing order information

~~said changing order information is outputted to said information recording apparatus together with said main information in said outputting process.~~

Claim 17 (Currently Amended): The information outputting method according to claim 12, wherein said partial information comprises an ~~[[a]]~~ information sector, and

said order information is any one of sector address information in association with said respective information sectors and relative information which is related to said sector address information.

Claim 18 (Currently Amended): An information recording method for recording main information and order information, which are outputted by an information outputting method, wherein said information outputting method comprises: an outputting process for outputting said main information including composed of a plurality of partial information and order information showing an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial information, wherein the outputting process cyclically outputs the whole of the main information, and in each session of outputting the whole of main information, the outputting device sequentially outputs the partial information and the order information added to the partial information in accordance with the order of recording or reproducing to an information recording apparatus together with said order information, which shows a configuration order in said main information of said respective partial information, along a reproduction time series in said main information; and a

~~controlling process for controlling said outputting process so as to repeatedly perform said outputting process with respect to the same said main information and said order information;~~

wherein the recording method comprises ~~the processes of:~~

obtaining said outputted partial information and order information in said main information and said outputted order information; and

recording said obtained partial information ~~main information~~ in a said recording medium by using said obtained order information in the order of obtaining,

wherein the method further comprises the process of determining whether the whole of one main information is completely recorded or not in accordance with said recorded order information, and

when the process of determining determines that the whole of said one main information is not completely recorded in a session, the process of recording records remaining partial information and order information in said one main information in another session.

Claim 19 (Original): The information recording method according to claim 18, wherein address information showing a recording position on said recording medium is recorded in advance on said recording medium, and

said partial information in association with said order information is recorded on a recording position on said recording medium, which is indicated by said address information associated with said obtained order information, in said recording process.

Claim 20 (Currently Amended): The information recording method according to claim 18, wherein said partial information comprises an [[a]] information sector, and

said order information is any one of sector address information in association with said respective information sectors and relative information which is related to said sector address information.

Claim 21 (Currently Amended): An information recording medium, in which an information outputting controlling program is recorded so as to be read by a computer included in an information outputting apparatus, the program making the computer function as:

an outputting device for outputting main information including ~~composed of~~ a plurality of partial information and order information showing an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial information, wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of main information, the outputting device sequentially outputs the partial information and the order information added to the partial information in accordance with the order of recording or reproducing ~~to an information recording apparatus together with order information, which shows a configuration order in said main information of said respective partial information, along a reproduction time series in said main information; and~~

~~a controlling device for controlling said outputting device so as to repeatedly perform said outputting operation with respect to the same said main information and said order information.~~

Claim 22 (Canceled).

Claim 23 (Currently Amended): The information recording medium according to claim 21, wherein said main information is compressed by a variable bit rate ~~having no relation to a time axis.~~

Claim 24 (Canceled).

Claim 25 (Currently Amended): The information recording medium according to claim 21, wherein said main information includes regulating information for regulating the number of times for copying after said main information is recorded in said recording medium, and

said program makes said computer further function as: a changing device for ~~uniformly~~ generating changing order information by changing each of said ~~respective~~ order information in association with a content of the foregoing included regulating information and for sequentially outputting at least the partial information and said changing order information, which is added to the partial information and is generated by the changing device, in accordance with the changing order information ~~to said information recording apparatus together with said main information.~~

Claim 26 (Original): The information recording medium according to claim 21, wherein address information showing a recording position on said recording medium is recorded in advance on said recording medium, and

said partial information in association with said order information is recorded on a recording position on said recording medium, which is indicated by said address information associated with said obtained order information, in said recording process.

Claim 27 (Currently Amended): An information recording medium in which an information recording controlling program is recorded so as to be read by a computer included in a recording controlling apparatus, wherein said recording controlling apparatus records main information and order information, which are outputted from an information outputting apparatus, in a recording medium, wherein the information outputting apparatus comprises: an outputting device for outputting said main information ~~including composed of~~ including a plurality of partial information and order information showing an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial

information, wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of main information, the outputting device sequentially outputs the partial information and the order information added to the partial information in accordance with the order of recording or reproducing to said information
~~recording apparatus together with said order information, which shows configuration order of said respective partial information in said main information, along a reproduction time series in said main information; and a controlling device for controlling the outputting device so as to repeatedly perform said outputting operation with respect to the same said main information and said order information,~~

wherein said program makes the computer function as:

an obtaining device for obtaining said outputted partial information and order information
in said main information and said outputted order information; and

a recording device for recording said obtained partial information ~~main information~~ in
said recording medium by using said obtained order information in the order of obtaining,

wherein said recording device determines whether the whole of one main information is
completely recorded or not in accordance with said recorded order information, and

when said recording device determines that the whole of said one main information is not
completely recorded in a session, said recording device records remaining partial information
and order information in said one main information in another session.

Claim 28 (Currently Amended): The information recording medium according to
claim 27, wherein an address information showing a recording position on said recording
medium is recorded in advance on said recording medium, and

said recording device records said partial information in association with said order
information on a recording position on said recording medium, which is indicated by said
address information associated with said obtained order information.

Claim 29 (Currently Amended): The information recording medium according to claim 27, wherein said partial information comprises an ~~[[a]]~~ information sector, and

said order information is any one of sector address information in association with said respective information sectors and relative information which is related to said sector address information.

Claim 30 (Currently Amended): An information outputting recording system comprising:

(a) an information outputting apparatus comprising: an outputting device for outputting main information including ~~composed of~~ a plurality of partial information and order information showing an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial information, wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of main information, the outputting device sequentially outputs the partial information and the order information added to the partial information in accordance with the order of recording or reproducing to an information recording apparatus together with order information, which shows a configuration order in said main information of said respective partial information, along a reproduction time series in said main information; and a controlling device for controlling the outputting device so as to repeatedly perform said outputting operation with respect to the same said main information and said order information; and

(b) said information recording apparatus comprising: an obtaining device for obtaining said outputted partial information and order information in said main information and ~~said outputted order information~~; and a recording device for recording said obtained partial information ~~main information~~ in said recording medium in the order of obtaining by using said obtained order information,

wherein said recording device determines whether the whole of one main information is completely recorded or not in accordance with said recorded order information, and
when said recording device determines that the whole of said one main information is not completely recorded in a session, said recording device records remaining partial information and order information in said one main information in another session.

Claim 31 and 32 (Canceled).

Claim 33 (New): An output apparatus for outputting contents that are distributed to a recording apparatus, the output apparatus comprising:

an outputting section for repeatedly outputting an entire information unit comprising a plurality of information pieces, each information piece being output with associated order information indicative of that information piece's position in a recording/reproducing order of the information pieces; and

a transmitting section for transmitting the information pieces and associated order information to a recording apparatus for recording the information pieces onto a recording medium in accordance with the order information.

Claim 34 (New): The output apparatus according to claim 33, wherein the order information corresponds to addresses for the recording medium.

Claim 35 (New): The output apparatus according to claim 33, wherein the information pieces are copy-controlled.

Claim 36 (New): A recording apparatus for recording contents that are distributed by an output apparatus, the recording apparatus comprising:

a receiving section for receiving information pieces of an entire information unit repeatedly transmitted by the output apparatus, each information piece having associated order information indicative of that information piece's position in a recording/reproducing order of the information pieces; and

a recording section for recording the received information pieces onto a recording medium, wherein the recording section uses the order information so that recording of the information pieces onto the recording medium can begin even if an information piece initially received by the receiving section is not the first information piece in the recording/reproducing order and so that recording of the information pieces onto the recording medium can be completed during a subsequent one of the repeated transmissions of the entire information unit by the output apparatus.

Claim 37 (New): The recording apparatus according to claim 36, wherein the recording section records the information pieces onto the recording medium so that the first information piece in the recording/reproducing order is recorded at the beginning of the data area of the recording medium.

Claim 38 (New): The recording apparatus according to claim 36, wherein the recording section records the information pieces onto the recording medium so that the first information received by the receiving section is recorded at the beginning of the data area of the recording medium.